

Abstract: Among other things, a method for the production of a modified material, for example, a carbon material, is described, having the following steps: Generation of a high-frequency field in a chamber (2) of a plasmatron (1); introduction of a plasma gas into chamber (2); generation of a plasma with the plasma gas by the high-frequency field; and introduction of initial material into the plasma. In addition a plasmatron (1) is described for the production of a modified material (M), having: a chamber (2), at least one high-frequency inductor (3) disposed in at least one region of chamber (2), a gas supply line (10, 11) for introducing a plasma gas into the region of a high-frequency field generated by high-frequency inductor (3), and a material supply line (4) for blowing in initial material with a transport gas into the plasma generated by high-frequency inductor (3) with the plasma gas. Finally, it also describes a modified carbon material which is correspondingly produced.